

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Final Office Action dated January 6, 2006 has been received and its contents carefully reviewed.

Claims 1, 4–6, 10, 11, and 16 are hereby amended; and claims 9, 13, and 18 are canceled. Accordingly, claims 1–8, 10–12, and 14–16 are currently pending. Reexamination and reconsideration of the pending claims are respectfully requested.

In the Office Action, claims 1–3 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Applicants' Related Art (hereinafter "ARA") in view of U.S. Patent Application, Publication No. 2002/0015017 by Kwag (hereinafter "Kwag") and further in view of U.S. Patent No. 6,222,605 to Tillin et al. (hereinafter "Tillin"); claims 4, 6, and 8–9 are rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kwag and further in view of Tillin and U.S. Patent No. 6,057,817 to Ono et al. (hereinafter "Ono"); claim 7 is rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kwag and further in view of Tillin and U.S. Patent No. 6,509,887 to Kondoh (hereinafter "Kondoh"); claims 10–11 are rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kondoh and further in view of Tillin; claim 12 is rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kondoh and further in view of Tillin and Kwag; and claims 13–18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kondoh and further in view of Tillin and Ono.

In the Office Action, claims 1–3 are rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kwag and further in view of Tillin. Applicants respectfully traverse the rejection of independent claim 1 and request reconsideration. Applicants amend independent claim 1 to incorporate subject matter of claim 4. Independent claim 1, as amended, is allowable in that it recites "a gate driver configured to supply a gate high voltage and a gate low voltage during a data input period, and sequentially *supply an AC voltage that pulses between the gate low voltage and a gate reset voltage to the gate lines during a reset period*, wherein a normal drive period is divided into the data input period and the reset period, and

wherein an average voltage applied to a pixel over the normal period is greater than a transition voltage corresponding to a splay state.” Nothing in ARA, Kwag, and Tillin teaches or suggests at least this feature of the claimed invention. The Examiner cites Ono (FIG. 32, $+V_R$ and $-V_R$) as teaching “the gate reset voltage and gate low voltage, which are alternately applied to a previous gate line, constitute an AC voltage.” (Office Action, page 6). Applicants respectfully disagree. In contrast, Ono teaches (referring to FIG. 32) that “[t]he reset voltages $+V_R$ and $-V_R$ are identical in the absolute value to the reference potential V_0 .” (Col. 52, ll. 61–62). Applicants respectfully submit that the above feature of claim 1 is patentably distinct from the teaching of Ono, and that Claim 1, and its dependent claims 2–3, are allowable over any combination of ARA, Kwag, Tillin, and Ono.

In the Office Action, claims 4, 6, and 8–9 are rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kwag and further in view of Tillin and Ono. Applicants cancel claim 9 without prejudice or disclaimer. Applicants respectfully traverse the rejection of claims 4, 6, and 8, and request reconsideration. Claims 4, 6, and 8, which depend from claim 1, are allowable because Ono fails to cure the deficiency of ARA, Kwag, and Tillin to teach or suggest the above feature of claim 1. Accordingly, Applicants respectfully submit that claims 4, 6, and 8, as they depend from independent claim 1, are allowable over any combination of ARA, Kwag, Tillin, and Ono.

In the Office Action, claim 7 is rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kwag and further in view of Tillin and Kondoh. Applicants respectfully traverse the rejection of claim 7 and request reconsideration. Claim 7, which depends from independent claim 1, is allowable because Kondoh fails to cure the deficiency of ARA, Kwag, and Tillin to teach or suggest the above feature of claim 1. Accordingly, Applicants respectfully submit that claim 7, as it depends from independent claim 1, is allowable over any combination of ARA, Kwag, Tillin, and Kondoh.

In the Office Action, claims 10–11 are rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kondoh and further in view of Tillin. Applicants respectfully traverse the rejection of independent claim 10 and request reconsideration. Applicants hereby amend independent claim 10 to include subject matter from canceled claim 13. Independent

claim 10, as amended, is allowable in that it recites “supplying an AC voltage that pulses between the gate low voltage and a gate reset voltage to the gate lines to make an average voltage of liquid crystal cells higher than a transition voltage corresponding to a splay state for the reset period.” Nothing in ARA, Kondoh, and Tillin, alone or in combination, teaches or suggests at least this feature of the claimed invention. The Examiner cites Ono as teaching this feature. However, Applicants disagree for the same reason as those regarding claim 1 above. Accordingly, for the same or similar reasons as those regarding claim 1, Applicants respectfully submit that claim 10, and its dependent claim 11, are allowable over any combination of ARA, Kondoh, Tillin, and Ono.

In the Office Action, claim 12 is rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kondoh and further in view of Tillin and Kwag. Applicants respectfully traverse the rejection and request reconsideration. Claim 12, which depends from independent claim 10, is allowable because Kwag fails to cure the deficiency of ARA, Kondoh, and Tillin to teach or suggest the feature of claim 10 discussed above. Accordingly, Applicants respectfully submit that claim 12, as it depends from independent claim 10, is allowable over any combination of ARA, Kondoh, Tillin, and Kwag.

In the Office Action, claims 13–18 are rejected under 35 U.S.C. § 103(a) as being unpatentable over ARA in view of Kondoh and further in view of Tillin and Ono. Applicants cancel claims 13 and 18 without prejudice or disclaimer. Applicants respectfully traverse the rejection of claims 14–17 and request reconsideration. Claims 14–17, which depend from independent claim 10, are allowable because Ono fails cure the deficiency of ARA, Kondoh, and Tillin, to teach or suggest the feature of claim 10 discussed above. Accordingly, Applicants respectfully submit that claims 14–17, as they depend from independent claim 10, are allowable over any combination of ARA, Kondoh, Tillin, and Ono.

Applicants believe the foregoing amendments place the application in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to

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discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. §1.136, and any additional fees required under 37 C.F.R. §1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. A duplicate copy of this sheet is enclosed.

Dated: April 6, 2006

Respectfully submitted,

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